

Title (en)

DAMPING SYSTEMS AND METHODS FOR IMPACT SENSING ON AN AGRICULTURAL HEADER

Title (de)

DÄMPFUNGSSYSTEME UND VERFAHREN ZUR AUFPRALLERFASSUNG AUF EINEM LANDWIRTSCHAFTLICHEN ERNTEVORSATZ

Title (fr)

SYSTÈMES ET PROCÉDÉS D'AMORTISSEMENT POUR DÉTECTION D'IMPACT SUR UNE TÊTE DE COUPE AGRICOLE

Publication

**EP 4353070 A1 20240417 (EN)**

Application

**EP 23203625 A 20231013**

Priority

US 202263416057 P 20221014

Abstract (en)

An impact sensor system for a header (200) of an agricultural system (100) includes a damping feature (218, 600) configured to couple to the header (200) to attenuate vibrations due to initial contact between a crop and the header (200) to form attenuated vibrations. The impact sensor system also includes one or more sensors (220, 222, 602, 604) configured to couple to the header (200) and to generate signals in response to detection of the attenuated vibrations. The impact sensor system also includes a controller (510) configured to receive the signal and process the signals to determine a location of the initial contact between the crop and the header (200).

IPC 8 full level

**A01D 41/14** (2006.01); **A01D 45/02** (2006.01)

CPC (source: EP US)

**A01D 41/127** (2013.01 - US); **A01D 41/141** (2013.01 - EP); **A01D 45/021** (2013.01 - EP); **A01D 47/00** (2013.01 - US); **G01L 5/0061** (2013.01 - US)

Citation (search report)

- [A] EP 3014973 A1 20160504 - CNH IND BELGIUM NV [BE]
- [A] US 2022000024 A1 20220106 - ZIELKE ROGER [US], et al
- [A] DE 102017203950 A1 20171130 - DEERE & CO [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4353070 A1 20240417**; US 2024125661 A1 20240418

DOCDB simple family (application)

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